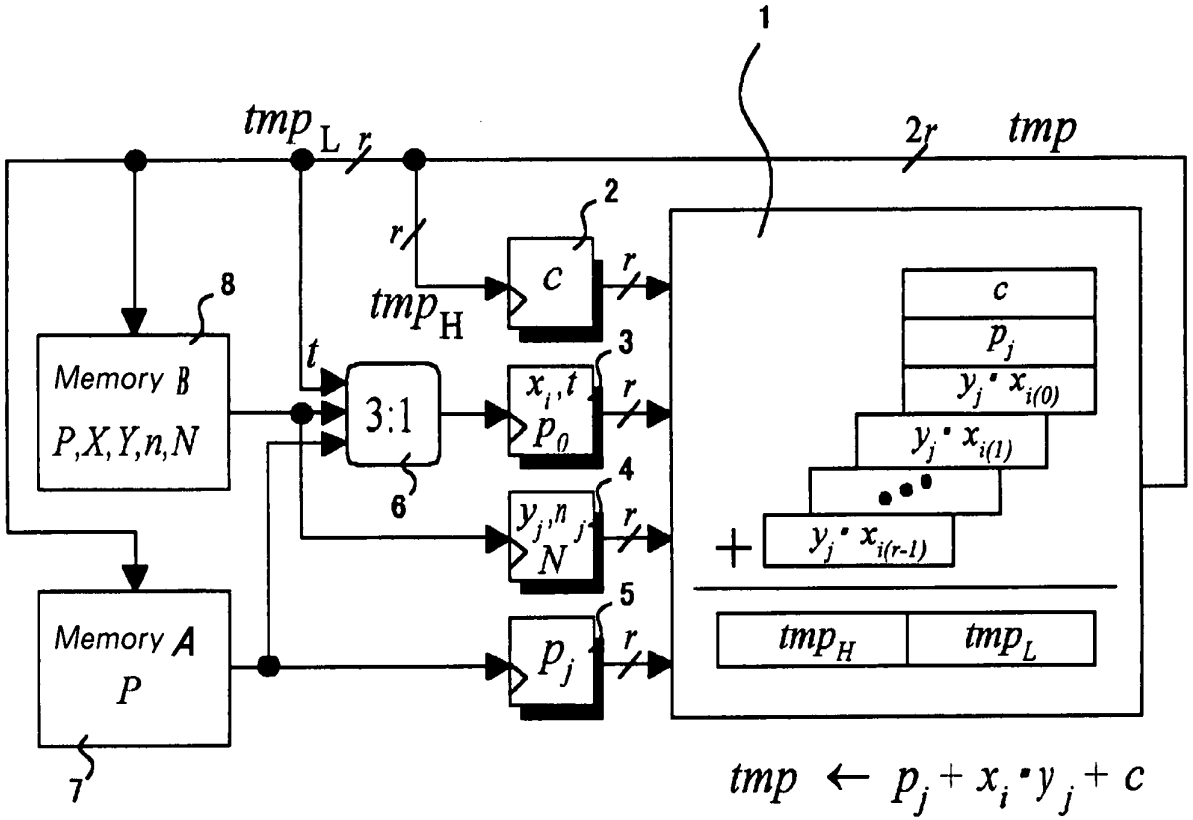


$$tmp \leftarrow p_j + x_i * y_j + c$$
$$tmp \leftarrow p_j + t * n_j + c$$
$$tmp \leftarrow p_0 * N$$

Fig. 1

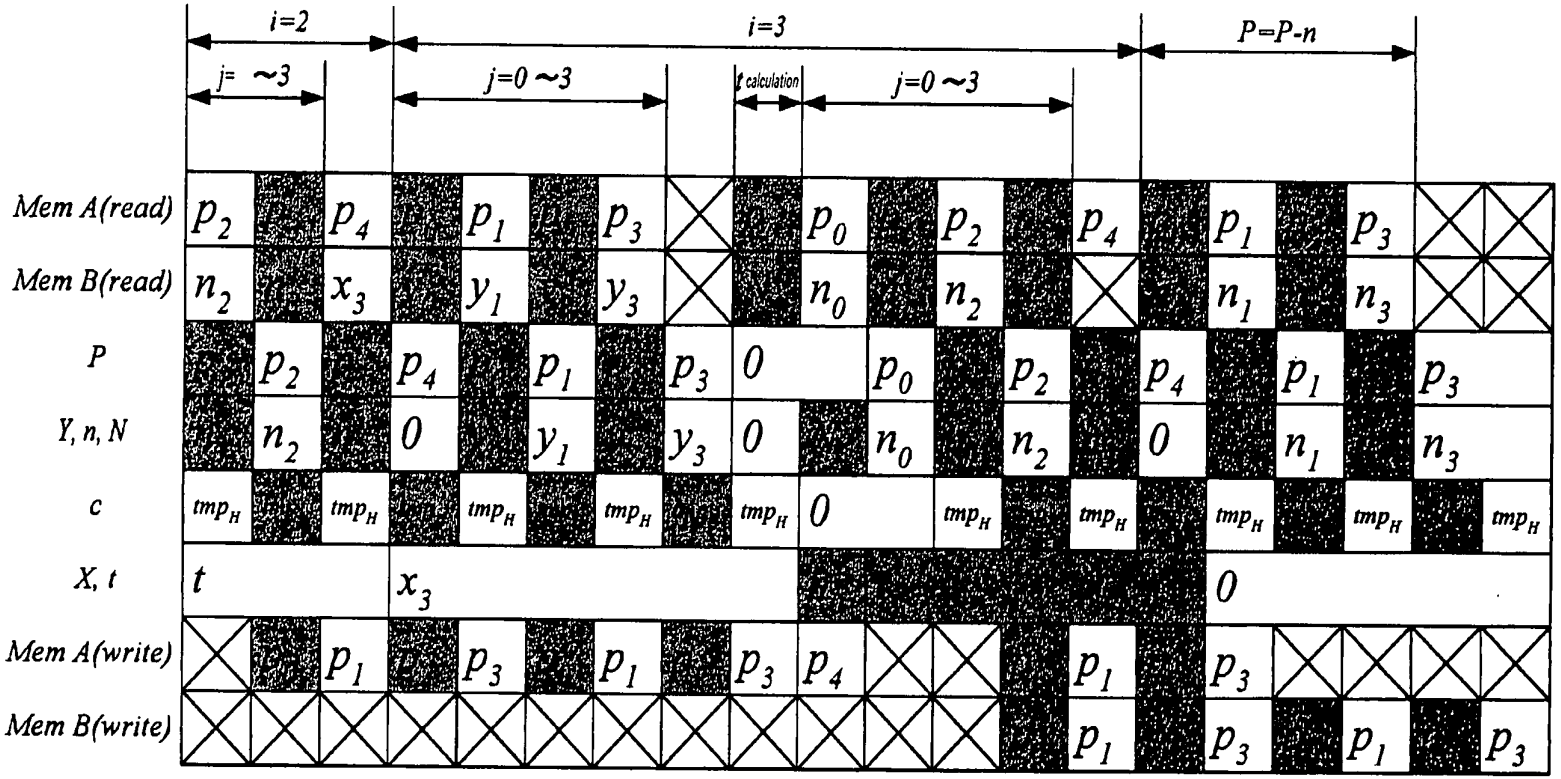
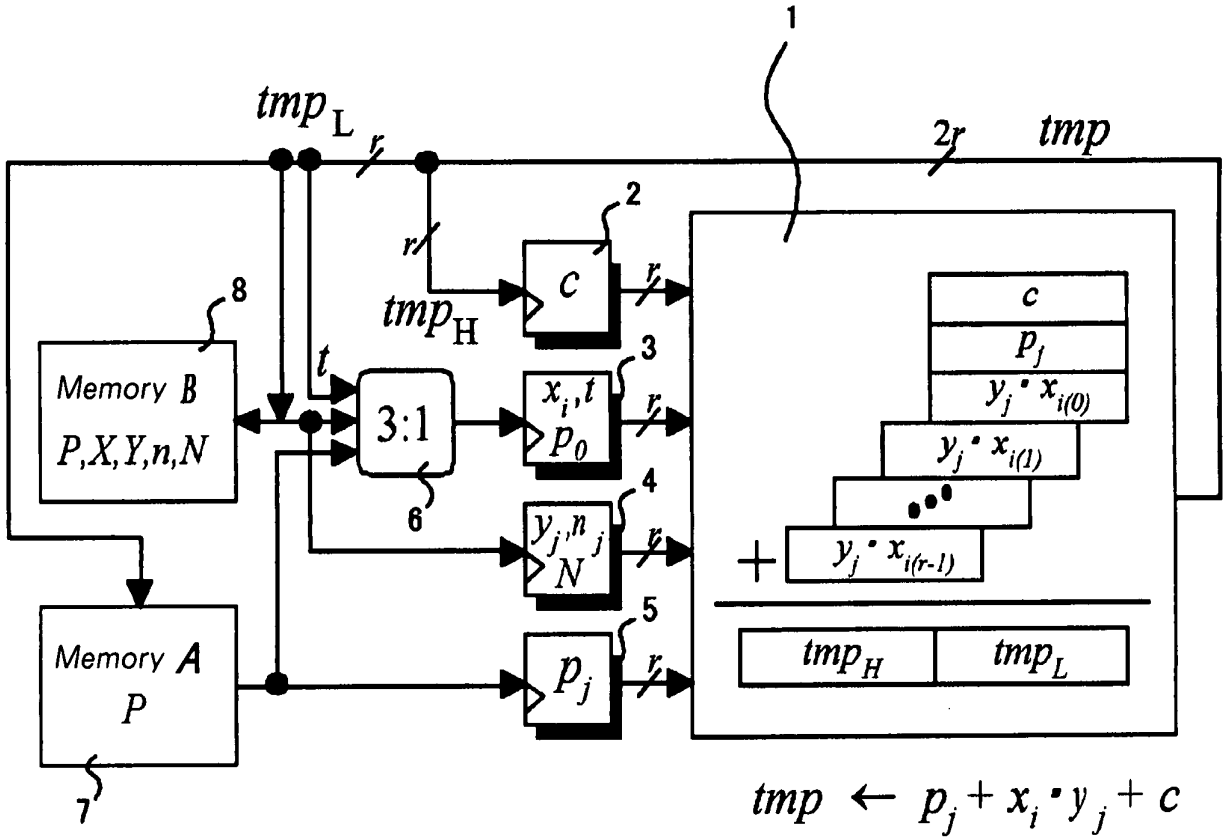

i=2
i=3
P=P-n
j= ~3
j=0 ~3
t calculation
j=0 ~3
Mem A(read)
Mem B(read)
P
Y, n, N
c
X, t
Mem A(write)
Mem B(write)

Fig. 2



$$tmp \leftarrow p_j + x_i \cdot y_j + c$$
$$tmp \leftarrow p_j + t \cdot n_j + c$$
$$tmp \leftarrow p_0 \cdot N$$

Fig. 3

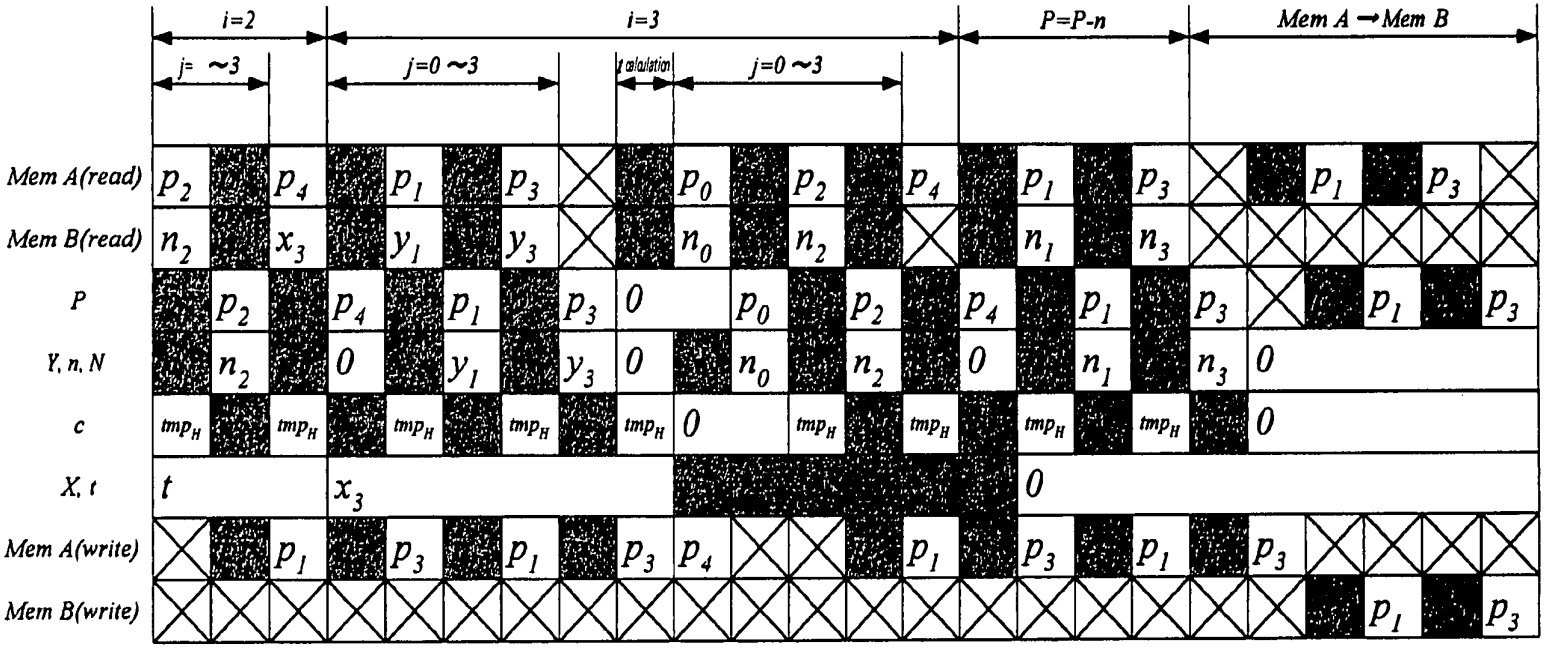
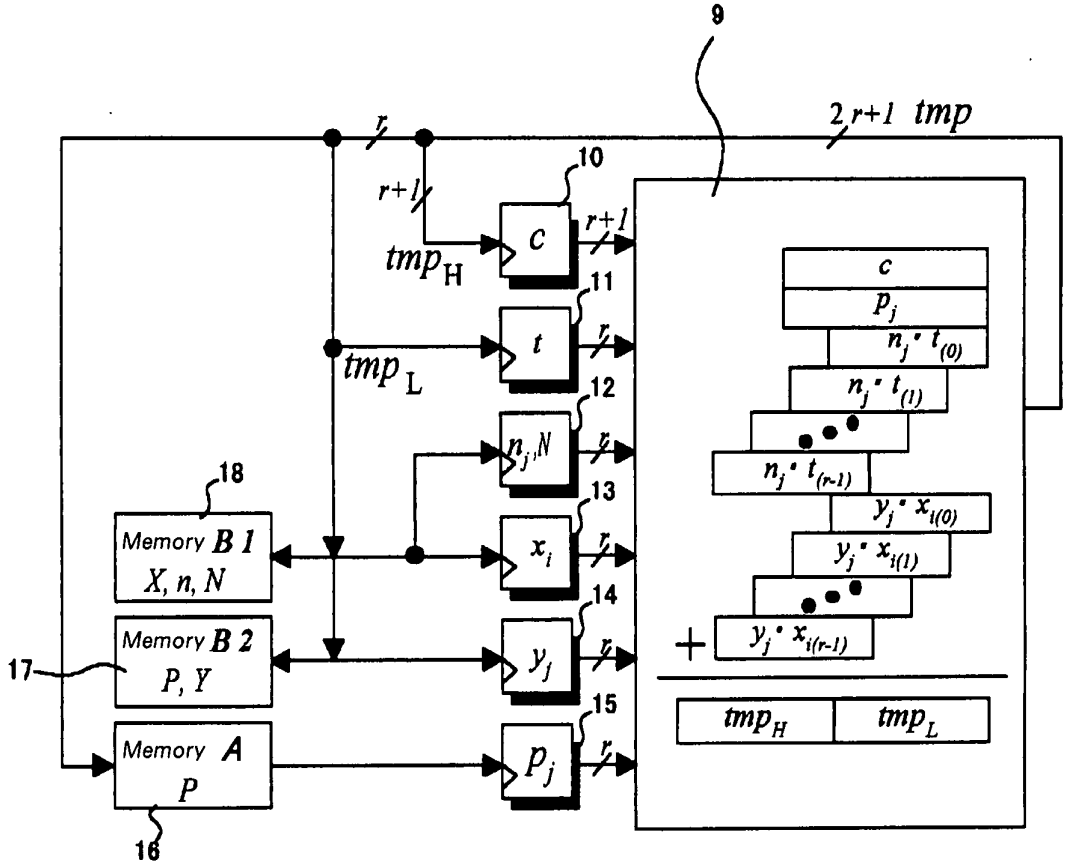

i=2
i=3
P=P-n
Mem A → Mem B
j= ~3
j=0 ~3
t calculation
j=0 ~3
Mem A(read)
Mem B(read)
P
Y, n, N
c
X, t
Mem A(write)
Mem B(write)

Fig. 4



$$tmp \leftarrow p_j + x_i \cdot y_j + t \cdot n_j + c$$

$$tmp \leftarrow t \cdot N$$

Fig. 5

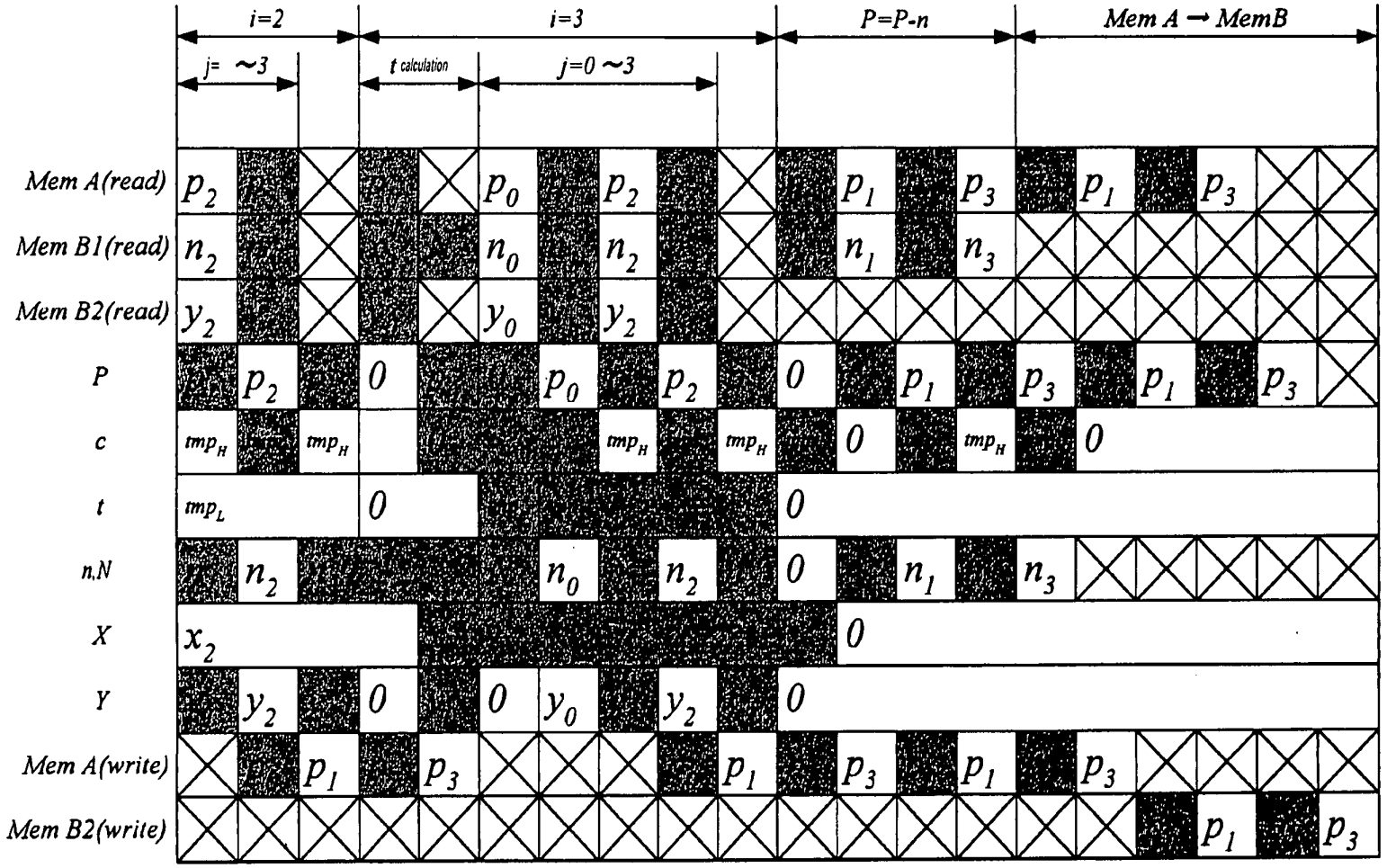
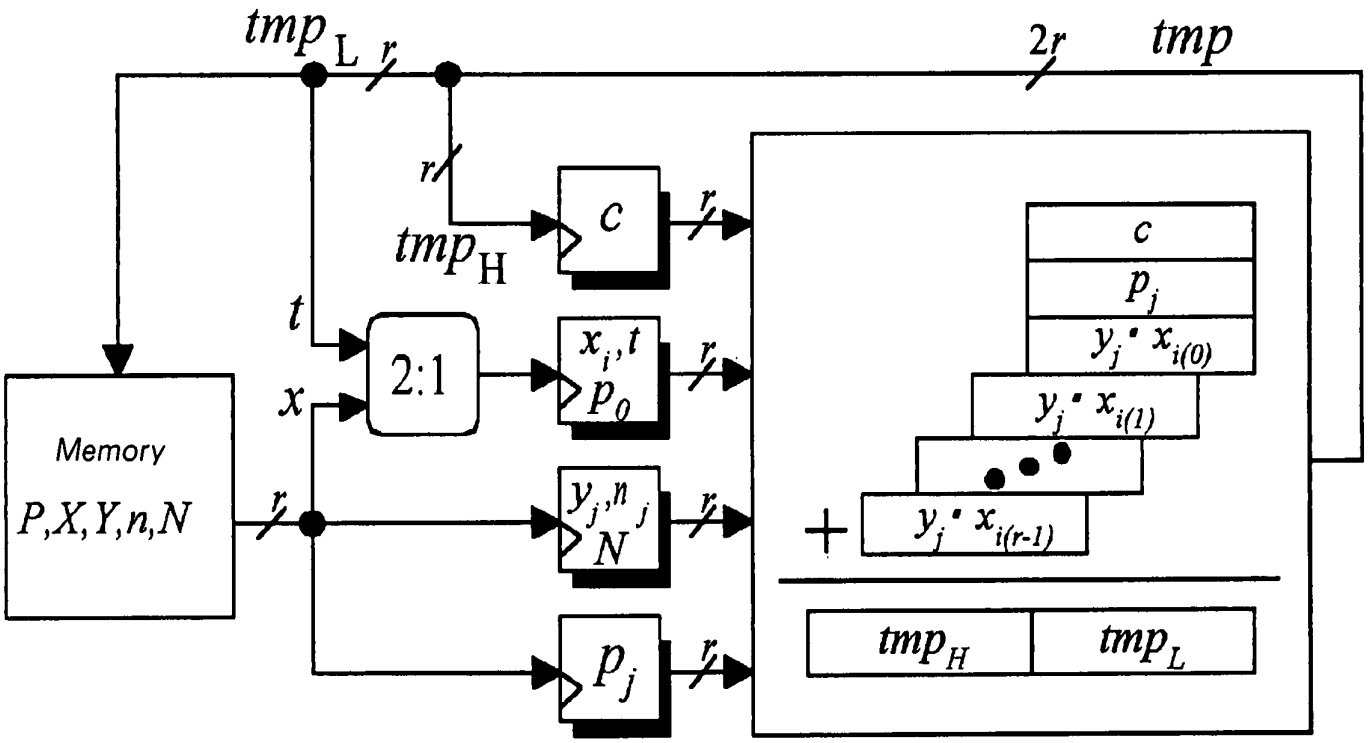

i=2
i=3
P=P-n
Mem A → MemB
j= ~3
t calculation
j=0 ~3
Mem A(read)
Mem B1(read)
Mem B2(read)
P
c
t
n,N
X
Y
Mem A(write)
Mem B2(write)

Fig. 6



$$tmp \leftarrow p_j + x_i \cdot y_j + c$$
$$tmp \leftarrow p_j + t \cdot n_j + c$$
$$tmp \leftarrow p_0 \cdot N$$

Fig. 7

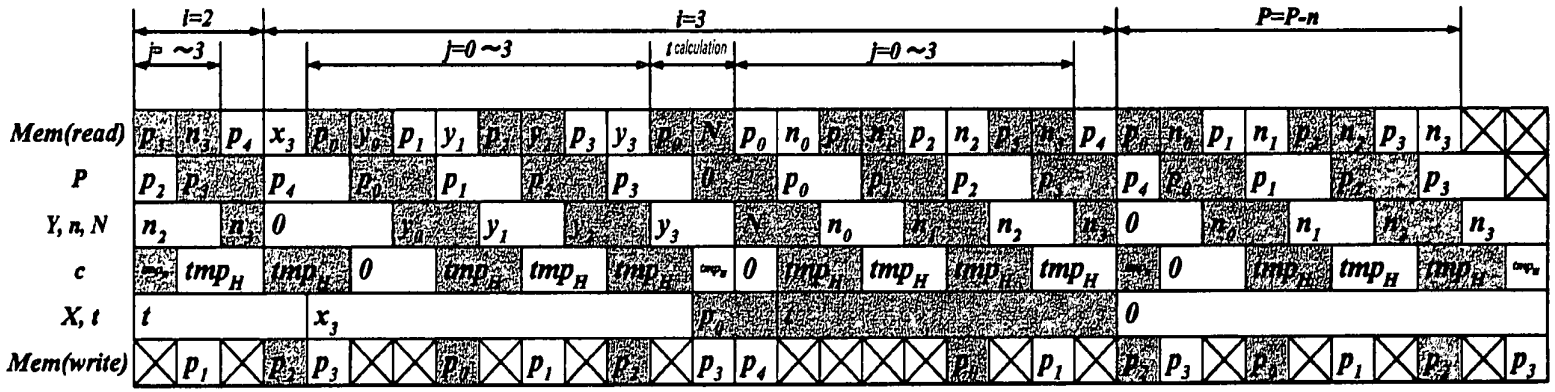


Fig. 8